Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1636DXS

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

********** Welcome to STN International **********

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 09 JAPIO to be reloaded August 18, 2002

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

********** STN Columbus **********

FILE 'HOME' ENTERED AT 13:31:41 ON 12 AUG 2002

=> file medline biosis caplus

COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 13:31:52 ON 12 AUG 2002

FILE 'BIOSIS' ENTERED AT 13:31:52 ON 12 AUG 2002
COPYRIGHT (C) 2002 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'CAPLUS' ENTERED AT 13:31:52 ON 12 AUG 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

=> s embryonic stem cell
L1 8688 EMBRYONIC STEM CELL

=> s neuron?
L2 731034 NEURON?

=> s l1 and l2
L3 733 L1 AND L2

=> s serum free or (without(3a)serum) or (minus(3a)serum)
L4 56250 SERUM FREE OR (WITHOUT(3A) SERUM) OR (MINUS(3A) SERUM)

=> s l3 and l4
L5 13 L3 AND L4

=> dup rem l5
PROCESSING COMPLETED FOR L5
L6 9 DUP REM L5 (4 DUPLICATES REMOVED)

=> d ti so 1-9

L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS
TI **Embryonic stem cells** and neural progenitor cells derived therefrom
SO PCT Int. Appl., 125 pp.
CODEN: PIXXD2

L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS
TI Regulation of apoptosis during **neuronal** differentiation by ceramide and b-series complex gangliosides
SO Journal of Biological Chemistry (2001), 276(48), 44396-44404
CODEN: JBCHA3; ISSN: 0021-9258

L6 ANSWER 3 OF 9 MEDLINE
TI Direct neural fate specification from **embryonic stem cells**: a primitive mammalian neural stem cell stage acquired through a default mechanism.
SO NEURON, (2001 Apr) 30 (1) 65-78.
Journal code: 8809320. ISSN: 0896-6273.

L6 ANSWER 4 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Induction of midbrain dopaminergic **neurons** from ES cells by stromal cell-derived inducing activity.
SO Neuron, (October, 2000) Vol. 28, No. 1, pp. 31-40. print.
ISSN: 0896-6273.

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS
TI Method for the preparation of neural precursor cells and their application in transplantation for the therapy of neural defects
SO Ger., 26 pp.
CODEN: GWXXAW

L6 ANSWER 6 OF 9 MEDLINE DUPLICATE 1
TI BMP-4 inhibits neural differentiation of murine **embryonic stem cells**.
SO JOURNAL OF NEUROBIOLOGY, (1999 Sep 5) 40 (3) 271-87.

Journal code: 0213640. ISSN: 0022-3034.

L6 ANSWER 7 OF 9 MEDLINE DUPLICATE 2
TI **Embryonic stem cells** as a model for studying regulation of cellular differentiation.
SO THERIOGENOLOGY, (1998 Jan 1) 49 (1) 145-51.
Journal code: 0421510. ISSN: 0093-691X.

L6 ANSWER 8 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI **Neuronal** induction of **embryonic stem cells** in **serum-free** medium.
SO Society for Neuroscience Abstracts, (1996) Vol. 22, No. 1-3, pp. 521.
Meeting Info.: 26th Annual Meeting of the Society for Neuroscience Washington, D.C., USA November 16-21, 1996
ISSN: 0190-5295.

L6 ANSWER 9 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 3
TI PARTIAL EXPRESSION OF MONOAMINERGIC SEROTONINERGIC PROPERTIES BY THE MULTIPOTENT HYPOTHALAMIC CELL LINE F-7 AN EXAMPLE OF LEARNING AT THE CELLULAR LEVEL.
SO NEUROCHEM INT, (1986) 9 (1), 43-54.
CODEN: NEUIDS. ISSN: 0197-0186.

=> d ibib ab 1,5,6

L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:693474 CAPLUS
DOCUMENT NUMBER: 135:238973
TITLE: **Embryonic stem cells** and neural progenitor cells derived therefrom
INVENTOR(S): Pera, Martin Frederick; Ben-Hur, Tamir
PATENT ASSIGNEE(S): Monash University, Australia; National University of Singapore; Hadasit Medical Research Services and Development Company Limited; Reubinoff
SOURCE: PCT Int. Appl., 125 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001068815	A1	20010920	WO 2001-AU278	20010314

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002068045	A1	20020606	US 2001-808382	20010314

PRIORITY APPLN. INFO.: AU 2000-6211 A 20000314
AU 2000-1279 A 20001106
AU 2001-2920 A 20010206

AB The present invention relates to undifferentiated human **embryonic stem cells**, methods of cultivation and propagation and prodn. of differentiated cells. In particular it relates to the prodn. of human ES cells capable of yielding somatic differentiated cells in vitro, as well as committed progenitor cells such as neural progenitor cells capable of giving rise to mature somatic cells including neural cells and/or glial cells and uses thereof. In one aspect of the present invention, there is provided an enriched prepn. of undifferentiated human **embryonic stem cells** capable of proliferation in vitro and differentiation to neural progenitor cells, **neuron** cells and/or glial cells. This invention provides a method that generates an in vitro and in vivo model of controlled differentiation of ES cells towards the neural lineage. The model, and the cells that are generated along the pathway of neural differentiation may be used for the study of the cellular and mol. biol. of human neural development, for the discovery of genes, growth factors, and differentiation factors that play a role in neural differentiation and regeneration, for drug discovery and for the development of screening assays for teratogenic, toxic and neuroprotective effects.
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:286235 CAPLUS
DOCUMENT NUMBER: 130:278952
TITLE: Method for the preparation of neural precursor cells and their application in transplantation for the therapy of neural defects
INVENTOR(S): Bruestle, Oliver
PATENT ASSIGNEE(S): Germany
SOURCE: Ger., 26 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19756864	C1	19990429	DE 1997-19756864	19971219
CA 2315538	AA	19990701	CA 1998-2315538	19981218
WO 9932606	A2	19990701	WO 1998-DE3817	19981218
WO 9932606	A3	19990826		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9925106	A1	19990712	AU 1999-25106	19981218
EP 1040185	A2	20001004	EP 1998-966817	19981218

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

JP 2001526884	T2	20011225	JP 2000-525525	19981218

PRIORITY APPLN. INFO.: DE 1997-19756864 A 19971219
WO 1998-DE3817 W 19981218

AB The invention concerns the prodn. of purified **neuronal** and/or glial precursor cells from **embryonic stem cells** that contain max. 1.5% primitive embryonic stem and non-neural cells. The procedure is performed in series of steps: cultivation of **embryonic stem cells** to form embryoid bodies; cultivation of the embryoid bodies to form neural precursor cells; proliferation of neural cells in a **serum free**, growth factor contg. culture medium. **Neuronal** precursor cells are passaged to an other culture media with growth factor and either the **neuronal** or glial precursor cells are isolated and purified; or the cells are grown to spheroids with **neuronal** and glial differentiation potential. This is followed by the proliferation of the spheroid cells to form a confluent cell culture of glial precursor cells; and isolation of the purified glial precursor cells from the touch-down culture. Mammalian cells are used that are astrocytes, oligodendrocytes and **neuronal** cells; they can be genetically modified. The purified precursor cells are suspended in an injection soln.; they can be used for the therapy of nerve diseases; for the reconstruction of **neurons** or remyelination of demyelinated **neurons**. The precursor cells can be used for gene transfer and for the prodn. of polypeptides.

L6 ANSWER 6 OF 9 MEDLINE DUPLICATE 1
ACCESSION NUMBER: 1999370092 MEDLINE
DOCUMENT NUMBER: 99370092 PubMed ID: 10440729
TITLE: BMP-4 inhibits neural differentiation of murine **embryonic stem cells**.
AUTHOR: Finley M F; Devata S; Huettner J E
CORPORATE SOURCE: Department of Cell Biology and Physiology and Program in Neuroscience, Washington University Medical School, 660 South Euclid Avenue, St. Louis, Missouri 63110, USA.
CONTRACT NUMBER: NS30888 (NINDS)
SOURCE: JOURNAL OF NEUROBIOLOGY, (1999 Sep 5) 40 (3) 271-87.
Journal code: 0213640. ISSN: 0022-3034.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199912
ENTRY DATE: Entered STN: 20000113
Last Updated on STN: 20000113
Entered Medline: 19991220
AB Members of the transforming growth factor-beta superfamily, including bone morphogenetic protein 4 (BMP-4), have been implicated as regulators of **neuronal** and glial differentiation. To test for a possible role of BMP-4 in early mammalian neural specification, we examined its effect on neurogenesis in aggregate cultures of mouse embryonic stem (ES) cells. Compared to control aggregates, in which up to 20% of the cells acquired immunoreactivity for the **neuron**-specific antibody TuJ1, aggregates maintained for 8 days in **serum-free** medium containing BMP-4 generated 5- to 10-fold fewer **neurons**. The action of BMP-4 was dose dependent and restricted to the fifth through eighth day in suspension. In addition to the reduction in **neurons**, we observed that ES cell cultures exposed to BMP-4 contained fewer cells that were immunoreactive for glial fibrillary acidic protein or the HNK-1 neural antigen. Furthermore, under phase contrast, cultures prepared from BMP-4-treated aggregates contained a significant proportion of nonneuronal cells with a characteristic flat, elongated morphology. These cells were immunoreactive for antibodies to the intermediate filament protein vimentin; they were rare or absent in control cultures. Treatment with BMP-4 enhanced the expression of the early mesodermal genes brachyury and tbx6 but had relatively little effect on total cell number or cell death. Coapplication of the BMP-4 antagonist noggin counteracted the effect of exogenous BMP-4, but noggin alone had no effect on neuralization in either the absence or presence of retinoids. Collectively, our results suggest that BMP-4 can overcome the neuralizing action of retinoic acid to enhance mesodermal differentiation of murine ES cells.

=> d his

(FILE 'HOME' ENTERED AT 13:31:41 ON 12 AUG 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 13:31:52 ON 12 AUG 2002
L1 8688 S EMBRYONIC STEM CELL
L2 731034 S NEURON?
L3 733 S L1 AND L2
L4 56250 S SERUM FREE OR (WITHOUT(3A)SERUM) OR (MINUS(3A)SERUM)
L5 13 S L3 AND L4
L6 9 DUP REM L5 (4 DUPLICATES REMOVED)

=> s defin? media or defin? medium
L7 14822 DEFIN? MEDIA OR DEFIN? MEDIUM

=> s l3 and l7
L8 12 L3 AND L7

=> dup rem l8
PROCESSING COMPLETED FOR L8
L9 6 DUP REM L8 (6 DUPLICATES REMOVED)

=> d ti so 1-6

L9 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS
TI The use of chemically **defined media** for the analyses of early development in ES cells and mouse embryos
SO Methods in Molecular Biology (Totowa, NJ, United States) (2002), 185(Embryonic Stem Cells), 17-26
CODEN: MMBIED; ISSN: 1064-3745

L9 ANSWER 2 OF 6 MEDLINE DUPLICATE 1
TI Nestin-specific green fluorescent protein expression in **embryonic stem cell**-derived neural precursor cells used for transplantation.
SO STEM CELLS, (2001) 19 (5) 419-24.
Journal code: 9304532. ISSN: 1066-5099.

L9 ANSWER 3 OF 6 MEDLINE DUPLICATE 2
TI Enrichment of **neurons** and neural precursors from human **embryonic stem cells**.
SO EXPERIMENTAL NEUROLOGY, (2001 Dec) 172 (2) 383-97.
Journal code: 0370712. ISSN: 0014-4886.

L9 ANSWER 4 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Derivation of functional **neurons** from primate pluripotent parthenogenetic stem cells.
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 345. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience San Diego, California, USA November 10-15, 2001
ISSN: 0190-5295.

L9 ANSWER 5 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Positional specification of in vitro generated, ESEs cell-derived neural
progenitors.
SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract
No.-23.2. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience New
Orleans, LA, USA November 04-09, 2000 Society for Neuroscience
. ISSN: 0190-5295.

L9 ANSWER 6 OF 6 MEDLINE DUPLICATE 3
TI Lineage-restricted neural precursors can be isolated from both the mouse
neural tube and cultured ES cells.
SO DEVELOPMENTAL BIOLOGY, (1999 Oct 1) 214 (1) 113-27.
Journal code: 0372762. ISSN: 0012-1606.

=> d his

(FILE 'HOME' ENTERED AT 13:31:41 ON 12 AUG 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 13:31:52 ON 12 AUG 2002
L1 8688 S EMBRYONIC STEM CELL
L2 731034 S NEURON?
L3 733 S L1 AND L2
L4 56250 S SERUM FREE OR (WITHOUT(3A)SERUM) OR (MINUS(3A)SERUM)
L5 13 S L3 AND L4
L6 9 DUP REM L5 (4 DUPLICATES REMOVED)
L7 14822 S DEFIN? MEDIA OR DEFIN? MEDIUM
L8 12 S L3 AND L7
L9 6 DUP REM L8 (6 DUPLICATES REMOVED)

=> s emx2 or hoxb1 or leukemia inhibitory factor or nestin
L10 7583 EMX2 OR HOXB1 OR LEUKEMIA INHIBITORY FACTOR OR NESTIN

=> s l3 and l10
L11 76 L3 AND L10

=> dup rem l11
PROCESSING COMPLETED FOR L11
L12 45 DUP REM L11 (31 DUPLICATES REMOVED)

=> d ti so 1-45

L12 ANSWER 1 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Quantitation and functional characterization of neural cells derived from
ES cells using **nestin** enhancer-mediated targeting in vitro.
SO Journal of Cell Science, (April 1, 2002) Vol. 115, No. 7, pp. 1471-1485.
http://jcs.biologists.org/. print.
ISSN: 0021-9533.

L12 ANSWER 2 OF 45 MEDLINE DUPLICATE 1
TI Early **neuronal** and glial determination from mouse E10.5 telencephalon **embryonic stem cells**: an in vitro study.
SO NEUROREPORT, (2002 Jul 2) 13 (9) 1209-14.
Journal code: 9100935. ISSN: 0959-4965.

L12 ANSWER 3 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Noggin and chordin have distinct activities in promoting lineage commitment of mouse embryonic stem (ES) cells.
SO Developmental Biology, (May 1, 2002) Vol. 245, No. 1, pp. 83-94.
http://www.academicpress.com/db. print.
ISSN: 0012-1606.

L12 ANSWER 4 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Neural progenitor cell populations obtained from culturing stem cells in
cocktail of growth conditions
SO PCT Int. Appl., 39 pp.
CODEN: PIXXD2

L12 ANSWER 5 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Novel method for inducing the differentiation of **embryonic stem cells** into ectodermal cells and its use
SO PCT Int. Appl., 138 pp.
CODEN: PIXXD2

L12 ANSWER 6 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Derivation of midbrain dopaminergic **neurons** from **embryonic stem cells**
SO PCT Int. Appl., 66 pp.
CODEN: PIXXD2

L12 ANSWER 7 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI **Embryonic stem cells** and neural progenitor cells derived therefrom
SO PCT Int. Appl., 125 pp.
CODEN: PIXXD2

L12 ANSWER 8 OF 45 MEDLINE DUPLICATE 2
TI The ribosomal S6 kinases, cAMP-responsive element-binding, and STAT3
proteins are regulated by different **leukemia inhibitory factor** signaling pathways in mouse **embryonic stem cells**.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Dec 7) 276 (49) 46204-11.
Journal code: 2985121R. ISSN: 0021-9258.

L12 ANSWER 9 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Forced expression of the Oct-4 gene influences differentiation of **embryonic stem cells**
SO Chinese Science Bulletin (2001), 46(17), 1446-1449
CODEN: CSBUEF; ISSN: 1001-6538

L12 ANSWER 10 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Differentiation of **embryonic stem cells** to insulin-secreting structures similar to pancreatic islets
SO Science (Washington, DC, United States) (2001), 292(5520), 1389-1394
CODEN: SCIEAS; ISSN: 0036-8075

L12 ANSWER 11 OF 45 MEDLINE DUPLICATE 3
TI The neurotrophic factors in non-**neuronal** tissues.
SO CELLULAR AND MOLECULAR LIFE SCIENCES, (2001 Jul) 58 (8) 1061-6. Ref: 64
Journal code: 9705402. ISSN: 1420-682X.

L12 ANSWER 12 OF 45 MEDLINE
TI **Neuronal** differentiation of mouse **embryonic stem cells**: lineage selection and forced differentiation paradigms.
SO BLOOD CELLS, MOLECULES, AND DISEASES, (2001 May-Jun) 27 (3) 705-12.
Journal code: 9509932. ISSN: 1079-9796.

L12 ANSWER 13 OF 45 MEDLINE DUPLICATE 4
TI **Nestin**-specific green fluorescent protein expression in **embryonic stem cell**-derived neural precursor cells used for transplantation.
SO STEM CELLS, (2001) 19 (5) 419-24.
Journal code: 9304532. ISSN: 1066-5099.

L12 ANSWER 14 OF 45 MEDLINE DUPLICATE 5
TI Enrichment of **neurons** and neural precursors from human **embryonic stem cells**.
SO EXPERIMENTAL NEUROLOGY, (2001 Dec) 172 (2) 383-97.
Journal code: 0370712. ISSN: 0014-4886.

L12 ANSWER 15 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Organization of neural lineage cells in embryoid bodies derived from
murine embryonic stem (ES) cells.
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 347. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience San
Diego, California, USA November 10-15, 2001
ISSN: 0190-5295.

L12 ANSWER 16 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Mechanisms of **neuronal** development from **embryonic stem cells.**
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 346. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience San
Diego, California, USA November 10-15, 2001
ISSN: 0190-5295.

L12 ANSWER 17 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 6
TI The regulation of **embryonic stem cell** differentiation by leukaemia inhibitory factor (LIF.
SO Differentiation, (October, 2001) Vol. 68, No. 4-5, pp. 227-234. print.
ISSN: 0301-4681.

L12 ANSWER 18 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Characterization of embryonic stem (ES) cells as potential source of retinal progenitors.
SO IOVS, (March 15, 2001) Vol. 42, No. 4, pp. S198. print.
Meeting Info.: Annual Meeting of the Association for Research in Vision
and Ophthalmology Fort Lauderdale, Florida, USA April 29-May 04, 2001

L12 ANSWER 19 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 7
TI Effect of brain-derived neurotrophic factor on neural differentiation of
mouse **embryonic stem cells** and neural
precursor cells.
SO Neuroscience Research Communications, (November December, 2001) Vol. 29,
No. 3, pp. 183-192. print.
ISSN: 0893-6609.

L12 ANSWER 20 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Differentiation of **embryonic stem cell**
-derived dopaminergic **neurons** is enhanced by survival-promoting factors
SO Mechanisms of Development (2001), 105(1-2), 93-104
CODEN: MEDVE6; ISSN: 0925-4773

L12 ANSWER 21 OF 45 MEDLINE DUPLICATE 8
TI Direct neural fate specification from **embryonic stem cells**: a primitive mammalian neural stem cell stage acquired through a default mechanism.
SO NEURON, (2001 Apr) 30 (1) 65-78.
Journal code: 8809320. ISSN: 0896-6273.

L12 ANSWER 22 OF 45 MEDLINE DUPLICATE 9
TI Differentiation of green fluorescent protein-labeled **embryonic stem cell**-derived neural precursor cells into
Thy-1-positive **neurons** and glia after transplantation into adult rat striatum.
SO JOURNAL OF NEUROSURGERY, (2000 Dec) 93 (6) 1026-32.
Journal code: 0253357. ISSN: 0022-3085.

L12 ANSWER 23 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI A novel in vitro assay for teratogen screening using **embryonic stem cells.**
SO Reproductive Toxicology, (November December, 2000) Vol. 14, No. 6, pp.
565. print.
Meeting Info.: 28th Conference of European Teratology Society Ferrara,
Italy September 11-14, 2000 European Teratology Society
. ISSN: 0890-6238.

L12 ANSWER 24 OF 45 MEDLINE DUPLICATE 10
TI Differentiation of rat striatal **embryonic stem cells** in vitro: monolayer culture vs. three-dimensional coculture with differentiated brain cells.
SO JOURNAL OF NEUROSCIENCE RESEARCH, (2000 Feb 15) 59 (4) 504-12.
Journal code: 7600111. ISSN: 0360-4012.

L12 ANSWER 25 OF 45 MEDLINE DUPLICATE 11
TI The ciliary neurotrophic factor and its receptor, CNTFR alpha.
SO PHARMACEUTICA ACTA HELVETIAE, (2000 Mar) 74 (2-3) 265-72. Ref: 61
Journal code: 0401134. ISSN: 0031-6865.

L12 ANSWER 26 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Positional specification of in vitro generated, ESEs cell-derived neural
progenitors.
SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract
No.-23.2. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience New
Orleans, LA, USA November 04-09, 2000 Society for Neuroscience
. ISSN: 0190-5295.

L12 ANSWER 27 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Conservation of regulated neural gene expression in a human pluripotent
stem cell line.
SO Society for Neuroscience Abstracts., (1999) Vol. 25, No. 1-2, pp. 2290.
Meeting Info.: 29th Annual Meeting of the Society for Neuroscience. Miami
Beach, Florida, USA October 23-28, 1999 Society for Neuroscience
. ISSN: 0190-5295.

L12 ANSWER 28 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI **Neurons** derived in vitro from ES cells express homeoproteins characteristic of motoneurons and interneurons
SO Mechanisms of Development (1998), 79(1,2), 185-198
CODEN: MEDVE6; ISSN: 0925-4773

L12 ANSWER 29 OF 45 MEDLINE DUPLICATE 12
TI **Leukemia inhibitory factor** in human reproduction.
SO AMERICAN JOURNAL OF REPRODUCTIVE IMMUNOLOGY, (1998 Feb) 39 (2) 144-51.
Ref: 94
Journal code: 8912860. ISSN: 1046-7408.

L12 ANSWER 30 OF 45 MEDLINE DUPLICATE 13
TI Blastula-stage stem cells can differentiate into dopaminergic and serotonergic **neurons** after transplantation.
SO EXPERIMENTAL NEUROLOGY, (1998 Jan) 149 (1) 28-41.
Journal code: 0370712. ISSN: 0014-4886.

L12 ANSWER 31 OF 45 MEDLINE DUPLICATE 14
TI Retinoic acid mediates Pax6 expression during in vitro differentiation of
embryonic stem cells.
SO DIFFERENTIATION, (1997 Dec) 62 (4) 187-92.
Journal code: 0401650. ISSN: 0301-4681.

L12 ANSWER 32 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Targeted deletion in astrocyte intermediate filament (Gfap) alters **neuronal** physiology
SO Proceedings of the National Academy of Sciences of the United States of
America (1996), 93(13), 6361-6366
CODEN: PNASA6; ISSN: 0027-8424

L12 ANSWER 33 OF 45 MEDLINE DUPLICATE 15
TI Cardiotrophin-1 displays early expression in the murine heart tube and
promotes cardiac myocyte survival.
SO DEVELOPMENT, (1996 Feb) 122 (2) 419-28.
Journal code: 8701744. ISSN: 0950-1991.

L12 ANSWER 34 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Development of **neuronal** precursor cells and functional postmitotic **neurons** from **embryonic stem cells** in vitro
SO Mechanisms of Development (1996), 59(1), 89-102
CODEN: MEDVE6; ISSN: 0925-4773

L12 ANSWER 35 OF 45 MEDLINE
TI Cardiotrophin-1: a multifunctional cytokine that signals via LIF receptor-gp 130 dependent pathways.
SO CYTOKINE AND GROWTH FACTOR REVIEWS, (1996 Jun) 7 (1) 81-91. Ref: 63
Journal code: 9612306. ISSN: 1359-6101.

L12 ANSWER 36 OF 45 MEDLINE DUPLICATE 16
TI Cardiotrophin-1. Biological activities and binding to the **leukemia inhibitory factor** receptor/gp130 signaling complex.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1995 May 5) 270 (18) 10915-22.
Journal code: 2985121R. ISSN: 0021-9258.

L12 ANSWER 37 OF 45 MEDLINE DUPLICATE 17
TI In vitro differentiation of **embryonic stem cells** into glial cells and functional **neurons**.
SO JOURNAL OF CELL SCIENCE, (1995 Oct) 108 (Pt 10) 3181-8.
Journal code: 0052457. ISSN: 0021-9533.

L12 ANSWER 38 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI **Embryonic stem cells** transplanted to the adult brain: Tyrosine hydroxylase (TH) positive **neurons** developed spontaneously and by transfection with human TH gene.
SO Society for Neuroscience Abstracts, (1995) Vol. 21, No. 1-3, pp. 2028.
Meeting Info.: 25th Annual Meeting of the Society for Neuroscience San
Diego, California, USA November 11-16, 1995
ISSN: 0190-5295.

L12 ANSWER 39 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI ES-like cell cultures derived from early zebrafish embryos.
SO Molecular Marine Biology and Biotechnology, (1995) Vol. 4, No. 3, pp.
193-199.
ISSN: 1053-6426.

L12 ANSWER 40 OF 45 MEDLINE DUPLICATE 18
TI Ciliary neurotrophic factor maintains the pluripotentiality of **embryonic stem cells**.
SO DEVELOPMENT, (1993 Nov) 119 (3) 559-65.
Journal code: 8701744. ISSN: 0950-1991.

L12 ANSWER 41 OF 45 MEDLINE
TI **Leukemia inhibitory factor** (LIF): a growth factor with pleiotropic effects on bone biology.
SO PROGRESS IN GROWTH FACTOR RESEARCH, (1992) 4 (4) 337-53. Ref: 138
Journal code: 8912757. ISSN: 0955-2235.

L12 ANSWER 42 OF 45 MEDLINE
TI Distribution and binding properties of receptors for leukaemia inhibitory
factor.
SO CIBA FOUNDATION SYMPOSIUM, (1992) 167 227-39; discussion 239-44. Ref: 19
Journal code: 0356636. ISSN: 0300-5208.

L12 ANSWER 43 OF 45 MEDLINE
TI The **leukemia inhibitory factor** (LIF).
SO INTERNATIONAL JOURNAL OF CELL CLONING, (1991 Mar) 9 (2) 95-108. Ref: 52
Journal code: 8308172. ISSN: 0737-1454.

L12 ANSWER 44 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI New development of studies on nerve differentiation factors
SO Jikken Igaku (1990), 8(12), 1582-7
CODEN: JIIGEF; ISSN: 0288-5514

L12 ANSWER 45 OF 45 MEDLINE DUPLICATE 19
TI The cholinergic **neuronal** differentiation factor from heart cells is identical to **leukemia inhibitory factor**.
SO SCIENCE, (1989 Dec 15) 246 (4936) 1412-6.
Journal code: 0404511. ISSN: 0036-8075.

=> d ibib ab 43,40,37,34,17

L12 ANSWER 43 OF 45 MEDLINE
ACCESSION NUMBER: 91245208 MEDLINE
DOCUMENT NUMBER: 91245208 PubMed ID: 1645391
TITLE: The **leukemia inhibitory factor** (LIF).
AUTHOR: Metcalf D
CORPORATE SOURCE: Walter and Eliza Hall Institute of Medical Research,
Melbourne, Australia.
SOURCE: INTERNATIONAL JOURNAL OF CELL CLONING, (1991 Mar) 9 (2)
95-108. Ref: 52
Journal code: 8308172. ISSN: 0737-1454.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199107
ENTRY DATE: Entered STN: 19910719
Last Updated on STN: 19910719
Entered Medline: 19910701
AB **Leukemia inhibitory factor** (LIF) is a glycoprotein able to enforce differentiation and/or suppress clonogenic self-renewal in a number of myeloid leukemic cell lines. When acting on normal **embryonic stem cells**, it has the opposite action of preventing differentiation commitment. LIF is not a proliferative factor when acting alone on normal hemopoietic cells, but can potentiate the action of interleukin 3 on blast cell and megakaryocyte precursors. When injected in vivo, LIF stimulates rises in megakaryocyte numbers and platelet levels. LIF also exhibits striking functional

effects
on a wide range of other cells including hepatic parenchymal cells, **neurones**, adipocytes, osteoblasts and gonadal cells. The polyfunctionality of LIF suggests strongly that it is normally intended to
be produced locally and act as a local regulator. Despite its wide range
of actions, LIF remains a promising candidate for clinical use in thrombocytopenia and myeloid leukemia.

L12 ANSWER 40 OF 45 MEDLINE DUPLICATE 18
ACCESSION NUMBER: 94244460 MEDLINE
DOCUMENT NUMBER: 94244460 PubMed ID: 8187629
TITLE: Ciliary neurotrophic factor maintains the pluripotentiality
of **embryonic stem cells**.
AUTHOR: Conover J C; Ip N Y; Poueymirou W T; Bates B; Goldfarb M P;
DeChiara T M; Yancopoulos G D
CORPORATE SOURCE: Regeneron Pharmaceuticals, Inc., Tarrytown, New York 10591.
SOURCE: DEVELOPMENT, (1993 Nov) 119 (3) 559-65.
Journal code: 8701744. ISSN: 0950-1991.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199406
ENTRY DATE: Entered STN: 19940629
Last Updated on STN: 20000303
Entered Medline: 19940620
AB Ciliary neurotrophic factor was discovered based on its ability to support
the survival of ciliary **neurons**, and is now known to act on a variety of **neuronal** and glial populations. Two distant relatives of ciliary neurotrophic factor, **leukemia inhibitory factor** and oncostatin M, mimic ciliary neurotrophic factor with respect to its actions on cells of the nervous system. In contrast to ciliary neurotrophic factor, **leukemia inhibitory factor** and oncostatin M also display a broad array of actions on cells outside of the nervous system. The overlapping activities of **leukemia inhibitory factor**, oncostatin M and ciliary neurotrophic factor can be attributed to shared receptor components. The specificity of ciliary neurotrophic factor for cells of the nervous system results from the restricted expression of the alpha component of the ciliary neurotrophic factor receptor complex, which is
required to convert a functional **leukemia inhibitory factor**/oncostatin M receptor complex into a ciliary neurotrophic factor receptor complex. The recent observation that the alpha component
of the ciliary neurotrophic factor receptor complex is expressed by very
early **neuronal** precursors suggested that ciliary neurotrophic factor may act on even earlier precursors, particularly on cells previously thought to be targets for **leukemia inhibitory factor** action. Here we show the first example of ciliary neurotrophic factor responsiveness in cells residing outside of the nervous system by demonstrating that **embryonic stem cells** express a functional ciliary neurotrophic factor receptor complex, and that ciliary neurotrophic factor is similar to **leukemia inhibitory factor** in its ability to maintain the pluripotentiality of these cells.

L12 ANSWER 37 OF 45 MEDLINE DUPLICATE 17
ACCESSION NUMBER: 96019252 MEDLINE
DOCUMENT NUMBER: 96019252 PubMed ID: 7593279
TITLE: In vitro differentiation of **embryonic stem cells** into glial cells and functional **neurons**.
AUTHOR: Fraichard A; Chassande O; Bilbaut G; Dehay C; Savatier P;
Samarut J
CORPORATE SOURCE: Laboratoire de Biologie Moleculaire et Cellulaire de l'ENS,
UMR 49 CNRS, Ecole Normale Superieure de Lyon, France.
SOURCE: JOURNAL OF CELL SCIENCE, (1995 Oct) 108 (Pt 10) 3181-8.
Journal code: 0052457. ISSN: 0021-9533.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199512
ENTRY DATE: Entered STN: 19960124
Last Updated on STN: 19960124
Entered Medline: 19951218
AB Mouse **embryonic stem cells** were induced to differentiate in culture with retinoic acid. Putative precursors of **neurons** and glial cells (**nestin**-positive cells) were clearly identified as early as three days after the onset of differentiation. At day 6, **neuron**-like cells could be clearly identified, either as isolated cells or as cellular networks. Some of these cells were positive for astrocyte- or oligodendrocyte-specific antigens (GFAP or O4 antigens, respectively). Other cells were positive
for **neuron**-specific antigens (cytoskeleton proteins MAP2, MAP5 and NF200, as well as synaptophysin). Some **neuronal**-like cells were also positive for acetylcholinesterase activity or glutamic acid decarboxylase expression, indicating that ES cells could differentiate into GABAergic and possibly cholinergic **neurons**.
Electrophysiological analyses performed in voltage clamp conditions showed
that cell membranes contained voltage-dependent channels. Overshooting
action potentials could be triggered by current injection. Taken together,
these data provide evidence that **embryonic stem cells** can differentiate first into **neuron**-glia progenitors, and later into glial cells and functional **neurons**, in vitro. This technique provides an unique system to study early steps of
neuronal differentiation in vitro.

L12 ANSWER 34 OF 45 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1996:552305 CAPLUS
DOCUMENT NUMBER: 125:271621
TITLE: Development of **neuronal** precursor cells and functional postmitotic **neurons** from **embryonic stem cells** in vitro
AUTHOR(S): Okabe, Shigeo; Forsberg-Nilsson, Karin; Spiro, A.
Cyril; Segal, Menahem; McKay, Ronald D. G.
CORPORATE SOURCE: Laboratory of Molecular Biology, National Institute of
Neurological Disorders and Stroke, National Institutes of Health, Bethesda, 20892 MD, USA
SOURCE: Mechanisms of Development (1996), 59(1), 89-102
CODEN: MEDVE6; ISSN: 0925-4773
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB To understand the mechanism of the sequential restriction of multipotency
of stem cells during development, we have established culture conditions
that allow the differentiation of neuroepithelial precursor cells from embryonic stem (ES) cells. A highly enriched population of neuroepithelial precursor cells derived from ES cells proliferates in the
presence of basic fibroblast growth factor (bFGF). These cells differentiate into both **neurons** and glia following withdrawal of bFGF. By further differentiating the cells in serum-contg. medium, the
neurons express a wide variety of **neuron**-specific genes

and generate both excitatory and inhibitory synaptic connections. The
expression pattern of position-specific neural markers suggests the presence of a variety of central nervous system (CNS) **neuronal** cell types. These findings indicate that **neuronal** precursor cells can be isolated from ES cells and that these cells can efficiently differentiate into functional post-mitotic **neurons** of diverse CNS structures.

L12 ANSWER 17 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 6
ACCESSION NUMBER: 2001:557742 BIOSIS
DOCUMENT NUMBER: PREV200100557742
TITLE: The regulation of **embryonic stem** **cell** differentiation by leukaemia inhibitory factor (LIF.
AUTHOR(S): Murray, Patricia; Edgar, David (1)
CORPORATE SOURCE: (1) Department of Human Anatomy and Cell Biology,
University of Liverpool, Ashton Street, Liverpool, L69 3GE:
dhedgar@liv.ac.uk UK
SOURCE: Differentiation, (October, 2001) Vol. 68, No. 4-5, pp. 227-234. print.
ISSN: 0301-4681.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English
AB LIF (leukaemia inhibitory factor) is commonly used to maintain mouse
embryonic stem cells in an undifferentiated
state. These cells spontaneously differentiate when allowed to aggregate
in the absence of LIF, forming embryoid bodies in which early embryonic
cell lineages develop. Using embryoid bodies cultured in the presence and
absence of LIF, we show that although LIF inhibited the development of
visceral and parietal endodermal cells, it did not affect the
differentiation of the primitive endodermal cell precursors of these
extraembryonic cell lineages. Furthermore, deposition of the basement
membrane produced by the primitive endodermal cells, which separates them
from the remaining cells of the embryoid body, still occurred. The
differentiation of primitive ectodermal cells and their progeny was
inhibited by LIF, as evidenced by the lack of expression of FGF-5, muscle,
and **neuronal** markers. However, cavitation of the embryoid body
and maintenance of the cells in contact with the primitive endodermal
basement membrane as an epiblast epithelium still occurred normally in the
presence of LIF. These results indicate that cavitation and formation of
the epiblast epithelium are regulated by mechanisms distinct from those
controlling the differentiation of epiblast cell lineages. Furthermore,
although epithelium formation and cavitation do not require the
differentiation of visceral endodermal cells, the results are consistent
with the hypothesis that the primitive endodermal basement membrane is
sufficient to induce the epithelialization of undifferentiated
embryonic stem cells necessary for cavitation.

=> d his

(FILE 'HOME' ENTERED AT 13:31:41 ON 12 AUG 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 13:31:52 ON 12 AUG 2002
L1 8688 S EMBRYONIC STEM CELL
L2 731034 S NEURON?
L3 733 S L1 AND L2
L4 56250 S SERUM FREE OR (WITHOUT(3A)SERUM) OR (MINUS(3A)SERUM)
L5 13 S L3 AND L4
L6 9 DUP REM L5 (4 DUPLICATES REMOVED)
L7 14822 S DEFIN? MEDIA OR DEFIN? MEDIUM
L8 12 S L3 AND L7
L9 6 DUP REM L8 (6 DUPLICATES REMOVED)
L10 7583 S EMX2 OR HOXB1 OR LEUKEMIA INHIBITORY FACTOR OR NESTIN
L11 76 S L3 AND L10
L12 45 DUP REM L11 (31 DUPLICATES REMOVED)

=> log hold
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 103.35 103.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE -1.86 -1.86

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:52:02 ON 12 AUG 2002

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1636DXS

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

********** Welcome to STN International **********

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 09 JAPIO to be reloaded August 18, 2002

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND

V6.0Ja(JP),
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

********** STN Columbus **********

FILE 'HOME' ENTERED AT 09:58:08 ON 15 AUG 2002

=> FILE MEDLINE BIOSIS CAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 09:58:15 ON 15 AUG 2002

FILE 'BIOSIS' ENTERED AT 09:58:15 ON 15 AUG 2002

FILE 'CAPLUS' ENTERED AT 09:58:15 ON 15 AUG 2002

=> S EMBRYONIC STEM CELL
L1 8704 EMBRYONIC STEM CELL

=> S DEFAULT
L2 4074 DEFAULT

=> S NEURON OR NEURONAL OR NEURAL OR NESTIN
L3 1344202 NEURON OR NEURONAL OR NEURAL OR NESTIN

=> S L1(P)L2(P)L3
L4 8 L1(P) L2(P) L3

=> DUP REM L4
PROCESSING COMPLETED FOR L4
L5 3 DUP REM L4 (5 DUPLICATES REMOVED)

=> D IBIB AB 1-3

L5 ANSWER 1 OF 3 MEDLINE DUPLICATE 1
ACCESSION NUMBER: 2002229148 MEDLINE
DOCUMENT NUMBER: 21964619 PubMed ID: 11967557
TITLE: **Neural** induction, the **default** model and **embryonic stem cells**.
AUTHOR: Munoz-Sanjuan Ignacio; Brivanlou Ali H
CORPORATE SOURCE: Laboratory of Molecular Vertebrate Embryology, The
Rockefeller University, New York, New York 10021, USA.
SOURCE: Nat Rev Neurosci, (2002 Apr) 3 (4) 271-80. Ref: 111
Journal code: 100962781. ISSN: 1471-0048.
PUB. COUNTRY: England: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200205
ENTRY DATE: Entered STN: 20020423
Last Updated on STN: 20020509
Entered Medline: 20020508

L5 ANSWER 2 OF 3 MEDLINE DUPLICATE 2
ACCESSION NUMBER: 2001241379 MEDLINE
DOCUMENT NUMBER: 21243067 PubMed ID: 11343645
TITLE: Direct **neural** fate specification from **embryonic stem cells**: a primitive mammalian **neural** stem cell stage acquired through a **default** mechanism.
AUTHOR: Tropepe V; Hitoshi S; Sirard C; Mak T W; Rossant J; van der Kooy D
CORPORATE SOURCE: Department of Anatomy & Cell Biology, University of
Toronto, Ontario M5S 1A8, Toronto, Canada.
SOURCE: NEURON, (2001 Apr) 30 (1) 65-78.
Journal code: 8809320. ISSN: 0896-6273.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200105
ENTRY DATE: Entered STN: 20010604
Last Updated on STN: 20010604
Entered Medline: 20010531
AB Little is known about how neural stem cells are formed initially during development. We investigated whether a default mechanism of neural specification could regulate acquisition of neural stem cell identity directly from embryonic stem (ES) cells. ES cells cultured in defined, low-density conditions readily acquire a neural identity. We characterize a novel primitive neural stem cell as a component of neural lineage specification that is negatively regulated by TGFbeta-related signaling. Primitive neural stem cells have distinct growth factor requirements, express neural precursor markers, generate neurons and glia in vitro, and have neural and non-neural lineage potential in vivo. These results are consistent with a default mechanism for neural fate specification and support a model whereby definitive neural stem cell formation is preceded by a primitive neural stem cell stage during neural lineage commitment.

L5 ANSWER 3 OF 3 MEDLINE DUPLICATE 3
ACCESSION NUMBER: 94261603 MEDLINE
DOCUMENT NUMBER: 94261603 PubMed ID: 8202507
TITLE: Cell fates in leech embryos with duplicated lineages.
AUTHOR: Lans D; Ho R K; Weisblat D A
CORPORATE SOURCE: Graduate Group in Neurobiology, University of California,
Berkeley 94720.
CONTRACT NUMBER: GM 07048 (NIGMS)
SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE
UNITED STATES OF AMERICA, (1994 Jun 7) 91 (12) 5451-5.
Journal code: 7505876. ISSN: 0027-8424.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199407
ENTRY DATE: Entered STN: 19940714
Last Updated on STN: 19940714
Entered Medline: 19940706

AB We have examined the fates of the progeny of supernumerary **embryonic stem cells** (O/P teloblasts) generated by microinjecting polyadenylic acid into newborn O/P teloblasts in embryos of the leech, Helobdella triserialis. In normal development, each O/P teloblast generates a rostrocaudal column of daughter cells (primary blast cells) that contribute distinct segmentally iterated O or P sets of epidermal and **neural** progeny to the mature leech. Previous results suggest that primary blast cells derived from ipsilateral pairs of O/P teloblasts are equipotent and equivalent at birth; that they and their progeny assume distinct O or P fates according to hierarchical and position-dependent interactions; and that the P fate is the primary, or **default**, fate and the O fate is the secondary fate. In the work presented here, one O/P teloblast was experimentally induced to undergo a supernumerary equal division, and the developmental fates of the progeny of the three (two "duplicate" and one "nonduplicate") ipsilateral O/P teloblasts were determined at stages 8 and 10. We find that some supernumerary O/P teloblasts produce supernumerary P progeny, whereas others generate supernumerary O progeny. When three O/P-derived bandlets are present, bandlets derived from the duplicate O/P teloblasts give rise to progeny of the same (O or P) fate. When the nonduplicate bandlet is absent, the duplicate bandlets assume distinct O and P fates. These results suggest that ipsilateral sister O/P teloblasts, while equipotent, might not be equivalent.

=> D HIS

(FILE 'HOME' ENTERED AT 09:58:08 ON 15 AUG 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 09:58:15 ON 15 AUG 2002
L1 8704 S EMBRYONIC STEM CELL
L2 4074 S DEFAULT
L3 1344202 S NEURON OR NEURONAL OR NEURAL OR NESTIN
L4 8 S L1(P)L2(P)L3
L5 3 DUP REM L4 (5 DUPLICATES REMOVED)

=> LOG HOLD

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
FULL ESTIMATED COST		16.01	16.22

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:00:29 ON 15 AUG 2002

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1636DXS

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

********** Welcome to STN International **********

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 09 JAPIO to be reloaded August 18, 2002

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

********** STN Columbus **********

FILE 'HOME' ENTERED AT 08:49:03 ON 16 AUG 2002

=> s hoxb1 and emx2
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file medline biosis caplus

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
FULL ESTIMATED COST		0.21	0.21

FILE 'MEDLINE' ENTERED AT 08:49:22 ON 16 AUG 2002

FILE 'BIOSIS' ENTERED AT 08:49:22 ON 16 AUG 2002

COPYRIGHT (C) 2002 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'CAPLUS' ENTERED AT 08:49:22 ON 16 AUG 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

=> s hoxb1 and emx2
L1 5 HOXB1 AND EMX2

=> dup rem l1
PROCESSING COMPLETED FOR L1
L2 3 DUP REM L1 (2 DUPLICATES REMOVED)

=> d ti so 1-3

L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
TI Primitive neural stem cells and method for differentiation of stem cells
to neural cells
SO PCT Int. Appl., 84 pp.
CODEN: PIXXD2

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
TI Neural stem cell lineages are regionally specified, but not committed,
within distinct compartments of the developing brain
SO Development (Cambridge, United Kingdom) (2002), 129(1), 233-244
CODEN: DEVPED; ISSN: 0950-1991

L2 ANSWER 3 OF 3 MEDLINE DUPLICATE 1
TI Mechanism of hyperthermia effects on CNS development: rostral gene
expression domains remain, despite severe head truncation; and the hindbrain/otocyst relationship is altered.
SO TERATOLOGY, (1999 Mar) 59 (3) 139-47.
Journal code: 0153257. ISSN: 0040-3709.

=> d ibib ab 1,2

L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:256435 CAPLUS
DOCUMENT NUMBER: 136:275702
TITLE: Primitive neural stem cells and method for differentiation of stem cells to neural cells
INVENTOR(S): Van der Kooy, Derek; Tropepe, Vincent
PATENT ASSIGNEE(S): Can.
SOURCE: PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002026941	A2	20020404	WO 2001-CA1383	20010928

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-236394P P 20000929

AB Described are a novel cell type in the neural lineage, and method of producing the same based on the degree of neural commitment and growth factor responsiveness in vitro and the potential to give rise to neural and non-neural progeny in vivo. The novel cell type of neural lineage and cells derived therefrom have a no. of applications including applications regarding tissue engineering, transplantation and gene therapy and drug discovery. Also described are suggested uses of the method and cell type including isolating genes that pos. and neg. regulate the transition from an ES cell to a neural cell and generally for studying ES cell models of mammalian neural development.

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:88224 CAPLUS
DOCUMENT NUMBER: 136:276499
TITLE: Neural stem cell lineages are regionally specified, but not committed, within distinct compartments of the developing brain
AUTHOR(S): Hitoshi, Seiji; Tropepe, Vincent; Ekker, Marc; Van der Kooy, Derek
CORPORATE SOURCE: Department of Anatomy and Cell Biology, University of Toronto, Toronto, ON, M5S 1A8, Can.
SOURCE: Development (Cambridge, United Kingdom) (2002), 129(1), 233-244
CODEN: DEVPED; ISSN: 0950-1991
PUBLISHER: Company of Biologists Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Regional patterning in the developing mammalian brain is partially regulated by restricted gene expression patterns within the germinal zone, which is composed of stem cells and their progenitor cell progeny. Whether or not neural stem cells, which are considered at the top of the neural lineage hierarchy, are regionally specified remains unknown. Here the authors show that the cardinal properties of neural stem cells (self-renewal and multipotentiality) are conserved among embryonic cortex, ganglionic eminence and midbrain/hindbrain, but that these different stem cells express sep. mol. markers of regional identity in vitro, even after passaging. Neural stem cell progeny derived from ganglionic eminence but not from other regions are specified to respond to local environmental cues to migrate ventrolaterally, when initially deposited on the germinal layer of ganglionic eminence in organotypic slice cultures. Cues exclusively from the ventral forebrain in a 5 day co-culture paradigm could induce both early onset and late onset marker gene expression of regional identity in neural stem cell colonies derived from both the dorsal and ventral forebrain as well as from the midbrain/hindbrain. Thus, neural stem cells and their progeny are regionally specified in the developing brain, but this regional identity can be altered by local inductive cues.

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

=> s embryonic stem cell
L3 8707 EMBRYONIC STEM CELL

=> s emx2
L4 226 EMX2

=> s hoxb1
L5 239 HOXB1

=> s l3 and l4
L6 1 L3 AND L4

=> s l3 and l5
L7 1 L3 AND L5

=> d ti so

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
TI An analysis of retinoic acid-induced gene expression and metabolism in AB1
embryonic stem cells
SO Journal of Biological Chemistry (1996), 271(25), 14971-14980
CODEN: JBCHA3; ISSN: 0021-9258

=> d ti so l6

L6 ANSWER 1 OF 1 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Positional specification of in vitro generated, ESEs cell-derived neural
progenitors.
SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract
No.-23.2. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience New
Orleans, LA, USA November 04-09, 2000 Society for Neuroscience
. ISSN: 0190-5295.

=> d his

(FILE 'HOME' ENTERED AT 08:49:03 ON 16 AUG 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 08:49:22 ON 16 AUG 2002
L1 5 S HOXB1 AND EMX2
L2 3 DUP REM L1 (2 DUPLICATES REMOVED)
L3 8707 S EMBRYONIC STEM CELL
L4 226 S EMX2
L5 239 S HOXB1
L6 1 S L3 AND L4
L7 1 S L3 AND L5

=> log hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	25.32	25.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.24	-1.24

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:54:28 ON 16 AUG 2002